

## Pre-conference technical events

### Course on "Testing techniques for structures inspection" (29<sup>th</sup> and 30<sup>th</sup> May)

Mechanical, acoustic, electrical, and magnetic NDT in-situ tests and specific DT lab tests: fundamentals, applicability to the evaluation of different deterioration processes, and practical demonstrations.

Chaired by: X. Dérobert (IFSTTAR, FR) and A. Santos Silva (LNEC, PT)

### Duratinet Transnational Workshop (30<sup>th</sup> May)

Presentation of the DURATINET network results. The participants will receive a CD-rom with the DURATINET Technical Guide on Maintenance and Repair of Transport Infrastructure.

Chaired by: M. Salta (LNEC, PT)

## Registration fees

	Early registration till 2012/04/15	Late registration after 2012/04/15
Full registration	150 €	200 €
First author of paper	100 €	150 €
Students	40 €	60 €
Pre-conference course*	70 €	100 €
DURATINET Workshop	-	-

\*maximum number participants 70

## Date and venue

31<sup>st</sup> May-1<sup>st</sup> June – ICDS12

29<sup>th</sup>-30<sup>th</sup> (morning) May –Course on "Testing techniques for structures inspection"

30<sup>th</sup> May (2 to 5pm) – DURATINET Workshop

30<sup>th</sup> May (5pm) – ICDS12 registration and Welcoming Reception

Congress Centre of Laboratório Nacional de Engenharia Civil (LNEC) in Lisbon

## Secretariat

LNEC – Apoio à Organização de Reuniões

Av. do Brasil 101 • 1700-066 LISBOA • PORTUGAL

phone: (+351) 21 844 34 83 • fax: (+351) 21 844 30 14

e-mail: [secretariat\\_ICDS12@lnec.pt](mailto:secretariat_ICDS12@lnec.pt) • website: <http://durablestructures2012.lnec.pt/>



# International Conference

# Durable Structures

From construction to rehabilitation

31<sup>st</sup> May - 1<sup>st</sup> June 2012 • Lisbon • Portugal



2<sup>nd</sup> announcement  
call for papers



LABORATÓRIO NACIONAL  
DE ENGENHARIA CIVIL

## Invitation

On the behalf of Laboratório Nacional de Engenharia Civil, I am very pleased to invite you to attend the International Conference "ICDS12 - DURABLE STRUCTURES: from construction to rehabilitation" in LNEC Congress Centre, Lisbon.

This International Conference is being organised by the DURATINET network and continues on from two previous international conferences on the same theme: MEDACHS'08 in Lisbon, Portugal, and MEDACHS'10 in La Rochelle, France. The main objective of this conference is to provide a forum for discussion and knowledge transfer between academic researchers, structural engineers, producers of building and repair materials, owners and managers of structures. The conference will also provide the opportunity to introduce engineering students to the themes of structures durability and sustainability.

With the aim of complementing the technical programme of ICDS12 the specialization Course "Testing techniques for structures inspection" and the DURATINET Workshop will be organized previously to the conference.

I encourage your active participation, and look forward to welcoming you in Lisbon.

Manuela Salta

*Chair of the Organising Committee*

## Scope

Buildings, bridges and other constructions located in coastal regions and marine environments are very important components of national infrastructure and are vital for economic and social development, not just at regional level, but for each country as a whole. It is recognised that the most common deterioration process affecting infrastructure is corrosion of steel and reinforced concrete. However, in concrete structures the ASR is nowadays also a frequent concrete deterioration process in many structures. Corrosion and many other deterioration processes are accelerated in marine environment, inducing structural and functional risk, as well as detracting from the aesthetics of civil engineering structures. In the context of the current economic climate, owners and managers are being faced with severe budgetary restrictions for the management and maintenance of their structures but currently do not have the tools to optimise the resources at their disposal. To adequately address these issues, the knowledge of the damage processes and their consequences is required. This must also include information on how to correctly diagnose and quantify the deterioration processes, and understanding the deterioration overtime and its structural consequences and the ability to estimate appropriate intervention time and systems and to optimise the structures whole life cost.

All this subjects and issues such as structures sustainability, environmental impact and carbon footprint must be also addressed in this conference.

## Main topics of the International Conference

1. Construction materials durability (steel, concrete,...)
2. Deterioration processes and modelling
3. Environmental loads and service life prediction
4. Testing techniques and diagnostic
5. Concrete treatments and repair methods
6. Steel protection methods
7. Innovative repair and protection systems
8. Sustainable concrete (e.g. using waste and recycled materials)
9. Monitoring of structures
10. Reliable asset management and structural safety
11. Case studies

## Conference committees

### Organising committee

Manuela Salta (LNEC,PT) - chair

Rita Moura (TD, PT) - co- chair

### Scientific committee

M. Basheer (QUB, UK) – chair

Arlindo Gonçalves (LNEC, PT) – co-chair

*(the complet list of Organising and Scientific Committees is in the ICDS12 website)*

### Advisory committee

J. Manuel Catarino (LNEC, PT)

Carmen Andrade (IETCC, SP)

Julio Appleton (IST, PT)

## Submission dates

Deadline for submission of extended abstracts	<del>2012/02/29</del> <b>NEW 2012/03/20</b>
Notification to authors of extended abstracts acceptance	<del>2012/03/15</del> <b>NEW 2012/03/25</b>
Deadline for submission of full paper manuscripts	2012/05/15
Notification to authors of paper selection for publication in a journal special edition	2012/06/30

## Official languages

Portuguese and English

*(simultaneous interpretation could be provided)*

